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✓ Seroepidemiology Report: 1989 to 1996

HIV Seroepidemiology Unit, AIDS Office

San Francisco Department of Public Health

December, 1997

Volume 8

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The HIV SEROPREVELENCE REPORT is released on an annual basis by the San Francisco Department of Public Health, AIDS Office, Seroepidemiology and Surveillance Branch, 25 Van Ness Avenue, Suite 500, San Francisco, CA. 94102-6033. Phone (415) 554-9050. Director Department of Public Health, Mitch Katz, M.D. Director of HIV Seroepidemiology, Willi McFarland, M.D., Ph.D. Epidemiologist, Tim Kellogg, Management Information Specialist, Kurt Scheer. Funding and technical support is provided by the Division of HIV/AIDS, Centers for Disease Control and Prevention. Additional support is provided by the California Department of Health Services, Office of AIDS.

Overview of HIV Sentinel Surveillance in San Francisco: 1989 to 1996

The sentinel surveillance activities of San Francisco Department of Public Health's HIV Seroepidemiology Unit seek to assess the current level or burden of infection among populations at risk, to monitor trends in transmission, to detect nascent sub-epidemics, and to find empirical evidence of the impact of community-wide prevention programs. HIV seroprevalence and seroincidence data contribute to our understanding the epidemiology of HIV, the formation of sound health policy, the appropriate allocation of resources, and the planning of programs for the primary and secondary prevention of infection. The present report summarizes HIV seroprevalence data collected by the Seroepidemiology Unit through blinded, anonymous, and confidential surveys conducted in San Francisco since 1989. Other data, including HIV seroprevalence among infants born in San Francisco (1989-1995), blood donors , and military recruits, are made to available to us by other institutions.

Caution is advised when interpreting the data presented in this report. Although the blinded nature of some HIV seroprevalence surveys reduces bias resulting from self-selection, other potential biases are unavoidable. Data collected at sentinel clinics serving specific clientele may not reflect the prevalence of HIV infection in a larger target population. Some sentinel sites may serve as referral clinics for person known to be HIV-infected. Trends in HIV seroprevalence may reflect trends in the clinic clientele rather than trends in the target population. Moreover, it is possible for HIV seroprevalence to decrease in our surveys even if the incidence of HIV infection is increasing in the target population. For these reasons, it is important to have population-based HIV seroprevalence surveys and direct measures of HIV seroincidence in addition to sentinel surveillance data. We are currently analyzing a population-based survey among women and evaluating methodologies to directly measure HIV seroincidence in diverse populations.

Bearing these limitations and potential biases in mind, the data presented in this report show promising trends. HIV seroprevalence data and the expert opinion of HIV/AIDS researchers estimate the overall prevalence of HIV infection to be lower in 1997 than earlier in the decade (pages 30 to 33). At the municipal STD clinic, HIV seroprevalence among patients has declined markedly from 1989 to 1996 (pages 1 to 4), with the most pronounced reduction among men who have sex with men (MSM). No HIV infection has been detected among military recruits residing in San Francisco for the last two years (pages 18 to 20). HIV prevalence among women attending a family planning clinic was on a downward trend when last collected from 1989 to 1992 (pages 13 to 14). HIV seroprevalence among blood donations has declined and remained extremely low for the last several years (pages 28 to 29).

Other trends, or lack thereof, are cause for concern. The level of HIV infection, although perhaps declining, remains unacceptably high. This is particularly true among young MSM (page 27). HIV seroprevalence remained unchanged at homeless and runaway youth centers from 1993 to 1996 (pages 21 to 25). Moreover, sentinel surveillance data provide little evidence of a decline in HIV seroprevalence among childbearing women (pages 15 to 17) when measured from 1989 to 1995 or among

injection drug users entering methadone clinics or detoxification programs from 1989 to 1994 (pages 5 to 12).

We have implemented several notable changes to the format of the HIV Seroepidemiology Report. First, data are displayed as graphs as well as tables to better illustrate trends in HIV seroprevalence. Second, we report data that were not included in past reports. In particular, we present summaries of the 1992 and 1997 consensus reports on HIV incidence and prevalence in San Francisco. Detailed consensus reports are available from the AIDS Office upon request. Finally, recent activities in the HIV Seroepidemiology Unit have focused less on seroprevalence (a measure of infection that may be long-standing) and more on seroincidence (a measure of new infection in a population). Measures of seroincidence will improve the quality and timeliness of our information on HIV transmission in San Francisco. New methodologies to measure HIV seroincidence are currently being evaluated at the municipal STD clinic, a methadone treatment center, and anonymous counseling and testing sites. We look forward to the inclusion of HIV seroincidence estimates for diverse populations in the 1998 HIV Seroepidemiology Report.

William McFarland, MD, Ph.D.
San Francisco, December 1997

HIV Seroprevalence for Clients Attending a Sexually Transmitted Disease (STD) Clinic by Gender
San Francisco 1989 - 1996



1989			
Gender	Number Tested	No. HIV Positive	% HIV Positive
Males	1,788	338	18.9%
Females	509	10	2.0%
Total	2,297	348	15.2%

1990		
Number Tested	No. HIV Positive	% HIV Positive
2,497	396	15.9%
681	20	2.9%
3,178	416	13.1%

1991		
Number Tested	No. HIV Positive	% HIV Positive
2,713	360	13.3%
849	15	1.8%
3,562	375	10.5%

1992			
Gender	Number Tested	No. HIV Positive	% HIV Positive
Males	2,495	299	12.0%
Females	776	8	1.0%
Total	3,271	307	9.4%

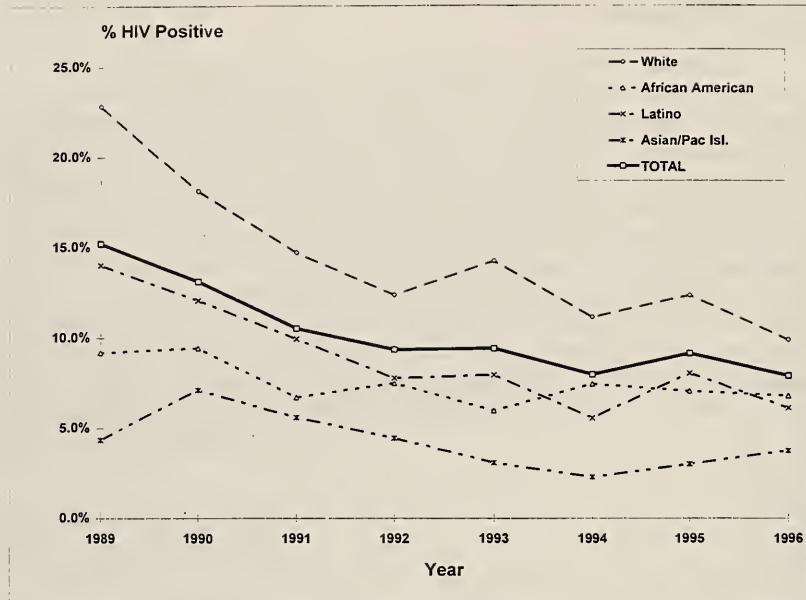
1993		
Number Tested	No. HIV Positive	% HIV Positive
2,749	325	11.8%
846	12	1.4%
3,595	337	9.4%

1994		
Number Tested	No. HIV Positive	% HIV Positive
2,725	274	10.1%
830	7	0.8%
3,555	281	7.9%

1995			
Gender	Number Tested	No. HIV Positive	% HIV Positive
Males	3,155	346	11.0%
Females	836	13	1.6%
Total	3,991	359	9.0%

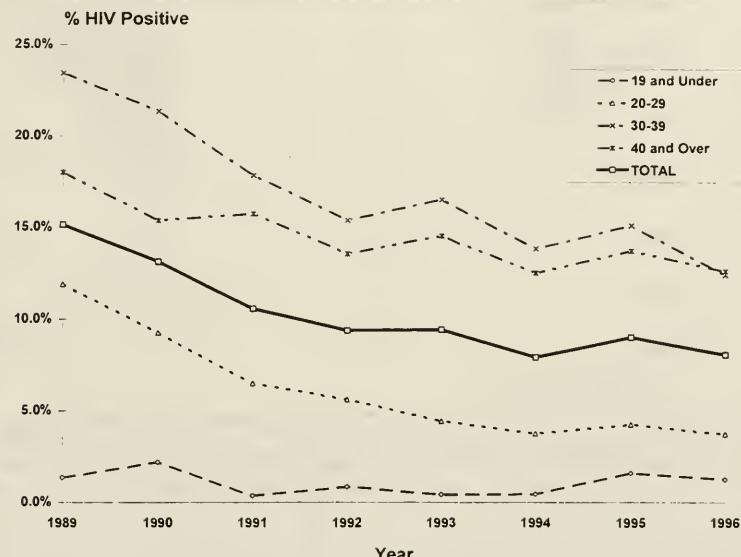
1996		
Number Tested	No. HIV Positive	% HIV Positive
2,748	279	10.2%
823	9	1.1%
3,571	288	8.1%

HIV Seroprevalence for Clients Attending a Sexually Transmitted Disease (STD) Clinic by Race/Ethnicity
San Francisco 1989-1996



1989				1990				1991				1992				1993				1994				1995						
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive	Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive	Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive	Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive	Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive	Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive	Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive			
White	916	209	22.8%	African American	828	76	9.2%	Latino	371	52	14.0%	Asian/Pac Isl.	138	6	4.3%	Total	2,253	343	15.2%											
White	1,210	219	18.1%	African American	1,178	111	9.4%	Latino	564	68	12.1%	Asian/Pac Isl.	183	13	7.1%	Total	3,135	411	13.1%											
White	1,429	210	14.7%	African American	1,165	78	6.7%	Latino	675	67	9.9%	Asian/Pac Isl.	233	13	5.6%	Total	3,502	368	10.5%											
White	1,320	163	12.3%	African American	1,016	76	7.5%	Latino	683	53	7.8%	Asian/Pac Isl.	203	9	4.4%	Total	3,222	301	9.3%											
White	1,398	199	14.2%	African American	1,109	66	6.0%	Latino	719	57	7.9%	Asian/Pac Isl.	292	9	3.1%	Total	3,518	331	9.4%											
White	1,321	147	11.1%	African American	1,038	77	7.4%	Latino	776	43	5.5%	Asian/Pac Isl.	307	7	2.3%	Total	3,442	274	8.0%											
White	1,598	197	12.3%	African American	1,123	79	7.0%	Latino	835	67	8.0%	Asian/Pac Isl.	300	9	3.0%	Total	3,856	352	9.1%											
White	1,661	164	9.9%	African American	812	55	6.8%	Latino	656	40	6.1%	Asian/Pac Isl.	294	11	3.7%	Total	3,423	270	7.9%											

HIV Seroprevalence for Clients Attending a Sexually Transmitted Disease (STD) Clinic by Age Group
San Francisco 1989-1996



1989			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	223	3	1.3%
20-29	1,076	128	11.9%
30-39	687	161	23.4%
40 and Over	311	56	18.0%
Total	2,297	348	15.2%

1990			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	274	6	2.2%
20-29	1,493	138	9.2%
30-39	952	203	21.3%
40 and Over	449	69	15.4%
Total	3,168	416	13.1%

1991			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	288	1	0.3%
20-29	1,730	112	6.5%
30-39	999	178	17.8%
40 and Over	528	83	15.7%
Total	3,545	374	10.6%

1992			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	241	2	0.8%
20-29	1,551	87	5.6%
30-39	995	153	15.4%
40 and Over	465	63	13.5%
Total	3,252	305	9.4%

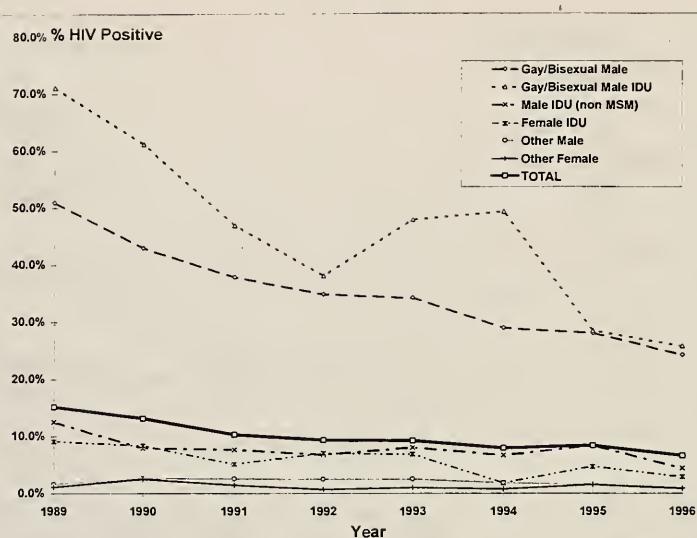
1993			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	244	1	0.4%
20-29	1,673	74	4.4%
30-39	1,073	177	16.5%
40 and Over	579	84	14.5%
Total	3,569	336	9.4%

1994			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	225	1	0.4%
20-29	1,712	64	3.7%
30-39	1,064	147	13.8%
40 and Over	552	69	12.5%
Total	3,553	281	7.9%

1995			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	254	4	1.6%
20-29	1,839	78	4.2%
30-39	1,240	187	15.1%
40 and Over	664	91	13.7%
Total	3,997	360	9.0%

1996			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	162	2	1.2%
20-29	1,589	59	3.7%
30-39	1,161	144	12.4%
40 and Over	659	83	12.6%
Total	3,571	288	8.1%

HIV Seroprevalence for Clients Attending a Sexually Transmitted Disease (STD) Clinic by Risk Population
San Francisco 1989-1996

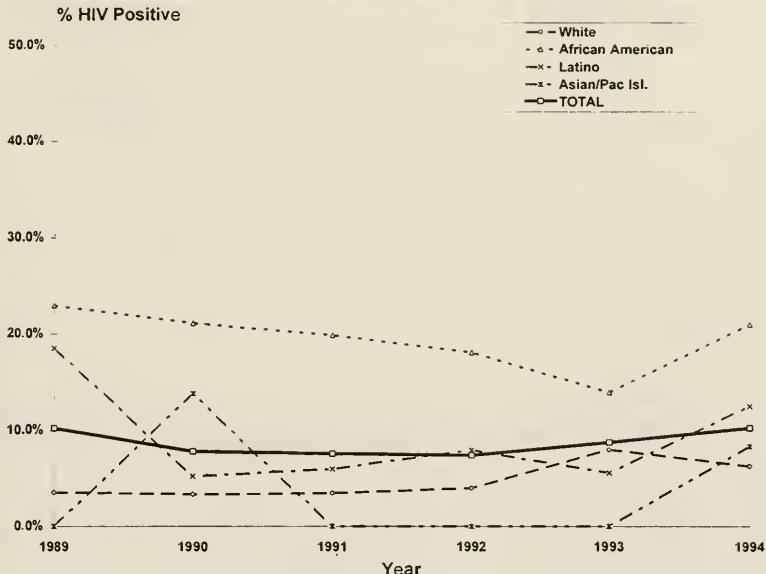


1989				1990				1991				
Risk Population	Number Tested	No. HIV Positive	% HIV Positive	Number Tested	No. HIV Positive	% HIV Positive	Number Tested	No. HIV Positive	% HIV Positive	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Male	440	224	50.9%	626	269	43.0%	672	254	37.8%	79	37	46.8%
Gay/Bisexual Male IDU	114	81	71.1%	90	55	61.1%	101	8	7.9%	118	9	7.6%
Male IDU (Non MSM)	104	13	12.5%	60	5	8.3%	1,493	39	2.6%	59	3	5.1%
Female IDU	55	5	9.1%	1,493	39	2.6%	1,785	45	2.5%	775	11	1.4%
Other Male	1,116	18	1.6%	602	15	2.5%	2,972	391	13.2%	3,488	359	10.3%
Other Female	449	5	1.1%									
Total	2,278	346	15.2%									

1992				1993				1994				
Risk Population	Number Tested	No. HIV Positive	% HIV Positive	Number Tested	No. HIV Positive	% HIV Positive	Number Tested	No. HIV Positive	% HIV Positive	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Male	650	226	34.8%	699	239	34.2%	695	201	28.9%	65	32	49.2%
Gay/Bisexual Male IDU	50	19	38.0%	46	22	47.8%	105	7	6.7%	55	1	1.8%
Male IDU (Non MSM)	104	7	6.7%	75	6	8.0%	1,856	34	1.8%	773	6	0.8%
Female IDU	43	3	7.0%	44	3	6.8%	3,507	324	9.2%	3,549	281	7.9%
Other Male	1,648	40	2.4%	1,864	46	2.5%						
Other Female	726	5	0.7%	779	8	1.0%						
Total	3,221	300	9.3%									

1995				1996			
Risk Population	Number Tested	No. HIV Positive	% HIV Positive	Number Tested	No. HIV Positive	% HIV Positive	Number Tested
Gay/Bisexual Male	793	222	28.0%	848	205	24.2%	
Gay/Bisexual Male IDU	81	23	28.4%	66	17	25.8%	
Male IDU (Non MSM)	120	10	8.3%	114	5	4.4%	
Female IDU	64	3	4.7%	70	2	2.9%	
Other Male	1,807	28	1.5%	1,899	15	0.8%	
Other Female	667	10	1.5%	806	7	0.9%	
Total	3,532	296	8.4%	3,803	251	6.6%	

HIV Seroprevalence for Injection Drug Users Entering Methadone Treatment Programs by Race/Ethnicity
San Francisco 1989-1994



1989			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	142	5	3.5%
African American	61	14	23.0%
Latino	27	5	18.5%
Asian/Pacific Isl.	5	0	0.0%
Total	235	24	10.2%

1990			
Number Tested	No. HIV Positive	% HIV Positive	
722	24	3.3%	
256	54	21.1%	
135	7	5.2%	
29	4	13.8%	
1,142	89	7.8%	

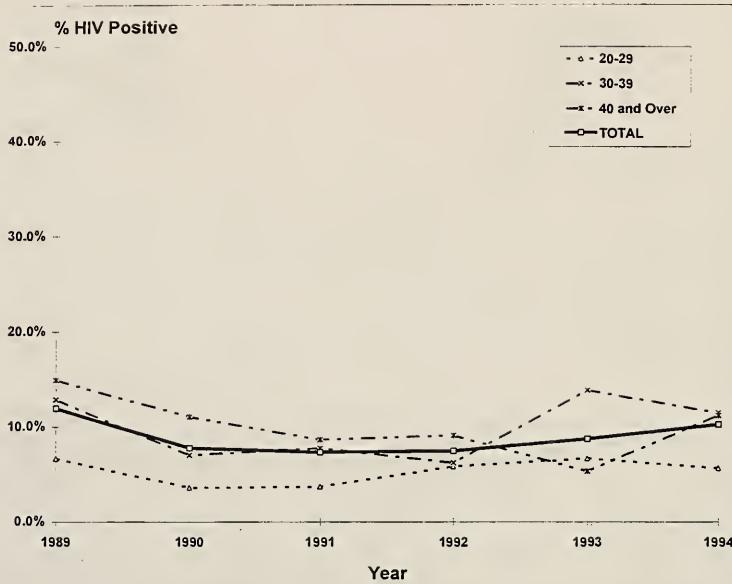
1991			
Number Tested	No. HIV Positive	% HIV Positive	
699	24	3.4%	
267	53	19.9%	
118	7	5.9%	
28	0	0.0%	
1,112	84	7.6%	

1992			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	889	35	3.9%
African American	299	54	18.1%
Latino	139	11	7.9%
Asian/Pacific Isl.	29	0	0.0%
Total	1,356	100	7.4%

1993			
Number Tested	No. HIV Positive	% HIV Positive	
264	21	8.0%	
79	11	13.9%	
36	2	5.6%	
9	0	0.0%	
388	34	8.8%	

1994			
Number Tested	No. HIV Positive	% HIV Positive	
240	15	6.3%	
81	17	21.0%	
48	6	12.5%	
12	1	8.3%	
381	39	10.2%	

HIV Seroprevalence for Injection Drug Users Entering Methadone Treatment Programs by Age Group
San Francisco 1989-1994



1989			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under*	*	*	0.0%
20-29	45	3	6.7%
30-39	109	14	12.8%
40 and Over	47	7	14.9%
Total	201	24	11.9%

1990			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under*	6	1	16.7%
20-29	222	8	3.6%
30-39	528	37	7.0%
40 and Over	390	43	11.0%
Total	1,146	89	7.8%

1991			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under*	7	0	0.0%
20-29	189	7	3.7%
30-39	490	38	7.8%
40 and Over	416	36	8.7%
Total	1,102	81	7.4%

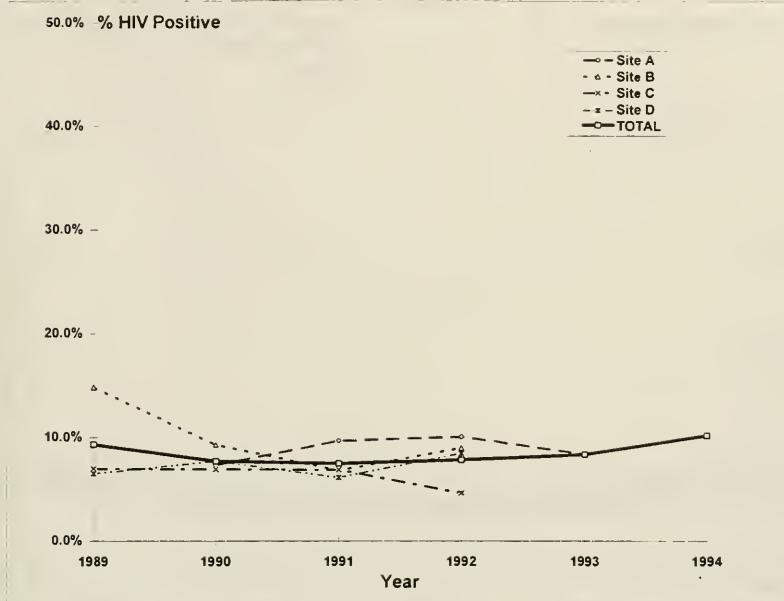
1992			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under*	6	0	0.0%
20-29	189	11	5.8%
30-39	532	33	6.2%
40 and Over	638	58	9.1%
Total	1,365	102	7.5%

1993			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under*	*	*	0.0%
20-29	30	2	6.7%
30-39	152	21	13.8%
40 and Over	207	11	5.3%
Total	389	34	8.7%

1994			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under*	*	*	0.0%
20-29	71	4	5.6%
30-39	131	15	11.5%
40 and Over	179	20	11.2%
Total	381	39	10.2%

* 19 and under not included in trend graph due to
small sample sizes in some cells.

HIV Seroprevalence for Injection Drug Users Entering Methadone Treatment Programs by Site
San Francisco 1989-1994



Site	1989		
	Number Tested	No. HIV Positive	% HIV Positive
Site A	-	-	-
Site B	81	12	14.8%
Site C	43	3	7.0%
Site D	123	8	6.5%
Total	247	23	9.3%

Site	1990		
	Number Tested	No. HIV Positive	% HIV Positive
Site A	41	3	7.3%
Site B	226	21	9.3%
Site C	405	28	6.9%
Site D	597	46	7.7%
Total	1,269	98	7.7%

Site	1991		
	Number Tested	No. HIV Positive	% HIV Positive
Site A	341	33	9.7%
Site B	206	14	6.8%
Site C	378	26	6.9%
Site D	277	17	6.1%
Total	1,202	90	7.5%

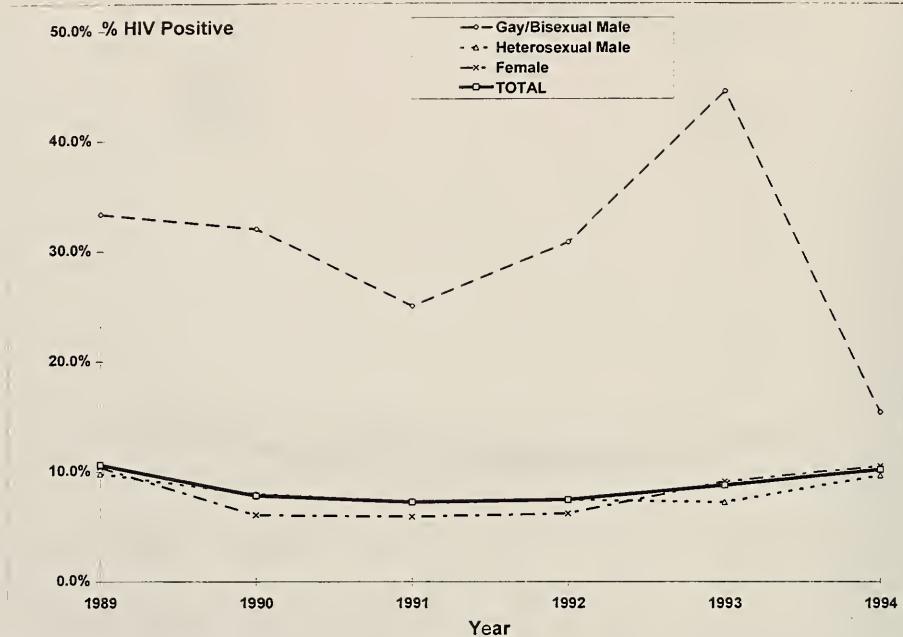
Site	1992		
	Number Tested	No. HIV Positive	% HIV Positive
Site A	239	24	10.0%
Site B	145	13	9.0%
Site C	238	11	4.6%
Site D	130	11	8.5%
Total	752	59	7.8%

Site	1993		
	Number Tested	No. HIV Positive	% HIV Positive
Site A	347	29	8.4%
Site B	*	*	*
Site C	*	*	*
Site D	*	*	*
Total	347	29	8.4%

Site	1994		
	Number Tested	No. HIV Positive	% HIV Positive
Site A	383	39	10.2%
Site B	*	*	*
Site C	*	*	*
Site D	*	*	*
Total	383	39	10.2%

*Sites B, C, and D discontinued collection in 1993

HIV Seroprevalence for Injection Drug Users Entering Methadone Treatment Programs by Risk Population
San Francisco 1989 - 1994



1989			
Risk Population	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Males	6	2	33.3%
Heterosexual Males	143	14	9.8%
Females	77	8	10.4%
Total	226	24	10.6%

1990			
	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Males	25	8	32.0%
Heterosexual Males	716	57	8.0%
Females	396	24	6.1%
Total	1,137	89	7.8%

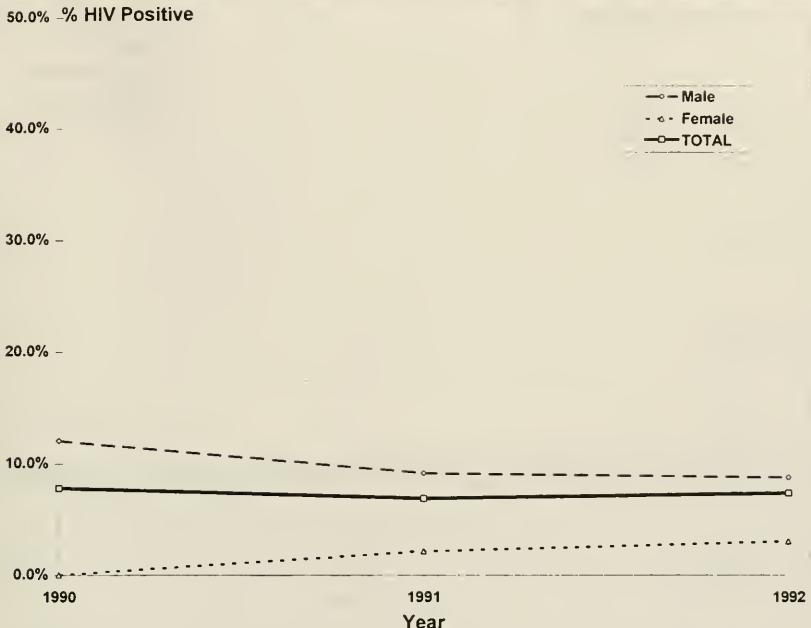
1991			
	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Males	28	7	25.0%
Heterosexual Males	688	50	7.3%
Females	390	23	5.9%
Total	1,105	80	7.2%

1992			
Risk Population	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Males	26	8	30.8%
Heterosexual Males	849	63	7.4%
Females	453	28	6.2%
Total	1,328	99	7.5%

1993			
	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Males	9	4	44.4%
Heterosexual Males	236	17	7.2%
Females	143	13	9.1%
Total	388	34	8.8%

1994			
	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Males	13	2	15.4%
Heterosexual Males	207	20	9.7%
Females	162	17	10.5%
Total	382	39	10.2%

HIV Seroprevalence for Drug Users Entering Detoxification Programs by Gender
San Francisco 1990-1992



1990			
Gender	Number Tested	No. HIV Positive	% HIV Positive
Male	83	10	12.0%
Female	45	0	0.0%
Total	128	10	7.8%

1991		
Number Tested	No. HIV Positive	% HIV Positive
394	36	9.1%
187	4	2.1%
581	40	6.9%

1992		
Number Tested	No. HIV Positive	% HIV Positive
308	27	8.8%
99	3	3.0%
407	30	7.4%

HIV Seroprevalence for Drug Users Entering Detoxification Programs by Race/Ethnicity
San Francisco 1990-1992

50.0% % HIV Positive

40.0% -

30.0% -

20.0% +

10.0% -

0.0% x

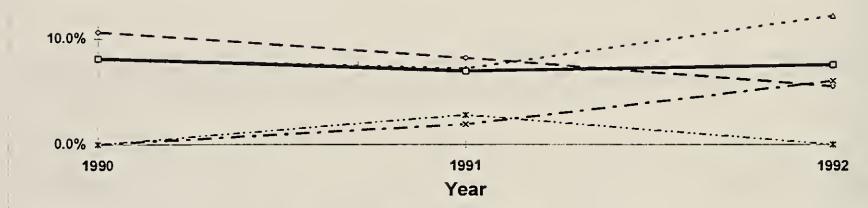
1990

1991

1992

Year

— White
- o - African American
- x - Latino
- * - Asian/Pacific Isl.
—○— TOTAL



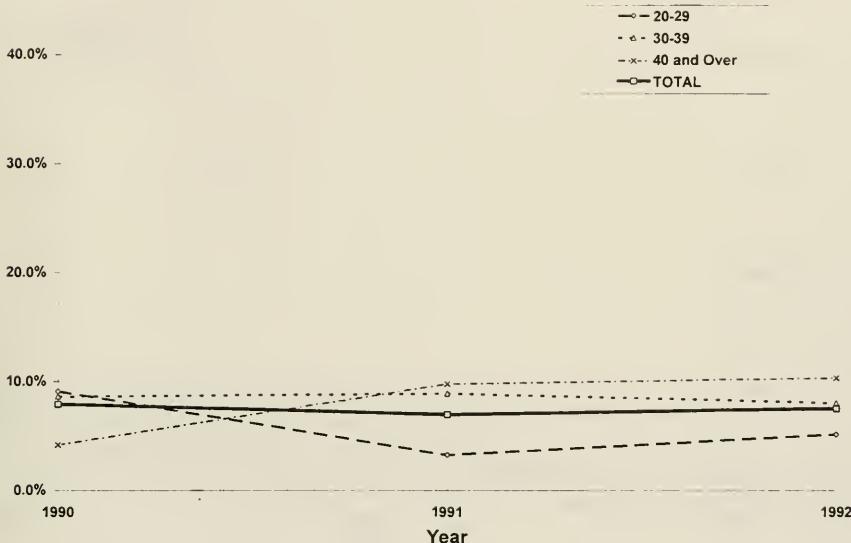
1990			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	66	7	10.6%
African American	37	3	8.1%
Latino	14	0	0.0%
Asian/Pacific Isl.	6	0	0.0%
Total	123	10	8.1%

1991		
Number Tested	No. HIV Positive	% HIV Positive
307	25	8.1%
168	12	7.1%
53	1	1.9%
36	1	2.8%
564	39	6.9%

1992		
Number Tested	No. HIV Positive	% HIV Positive
182	10	5.5%
140	17	12.1%
50	3	6.0%
26	0	0.0%
398	30	7.5%

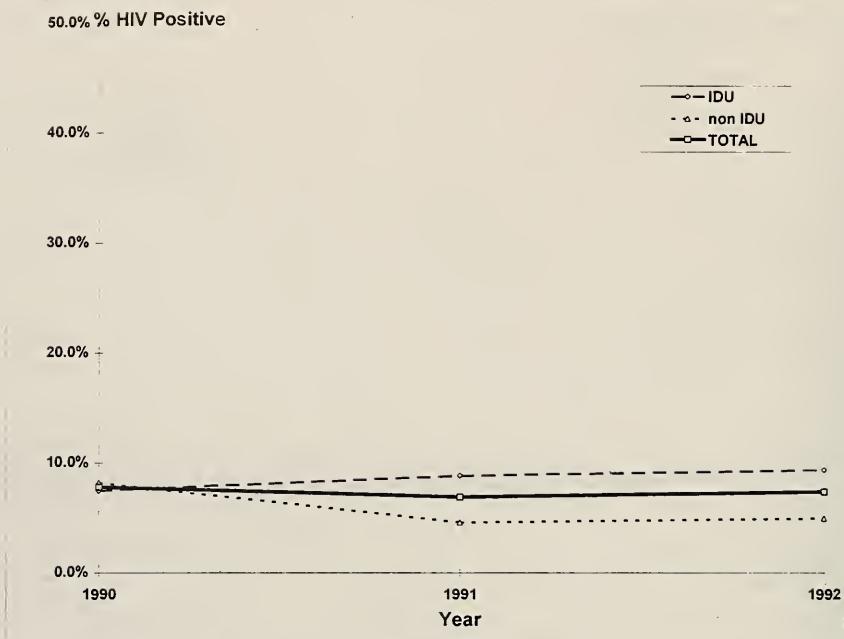
HIV Seroprevalence for Drug Users Entering Detoxification Programs by Age Group
 San Francisco 1990-1992

50.0% % HIV Positive



* 19 and under not included in trend graph due to
 small sample sizes in some cells.

HIV Seroprevalence for Drug Users Entering Detoxification Programs by Method of Administration
San Francisco 1990-1992

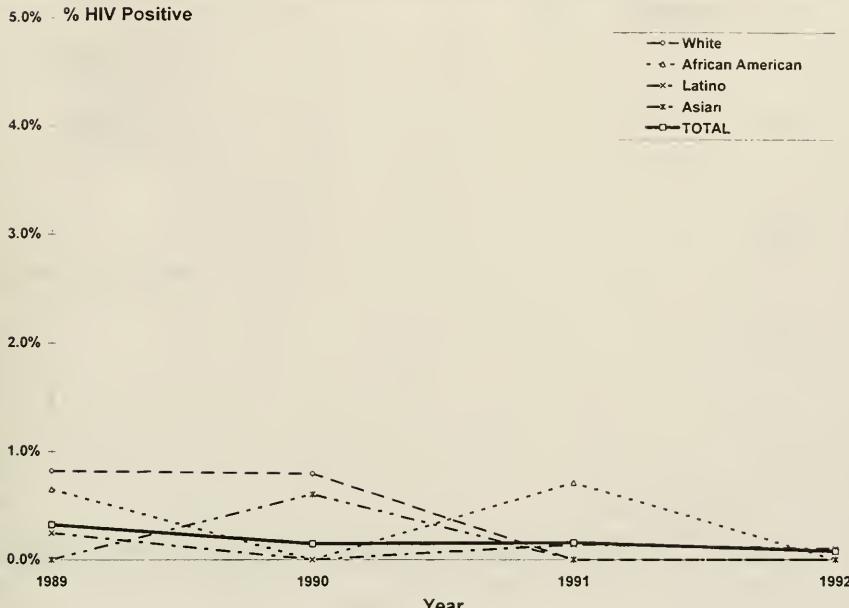


1990			
Site 55	Number Tested	No. HIV Positive	% HIV Positive
IDU	67	5	7.5%
Non IDU	61	5	8.2%
Total	128	10	7.8%

1991		
Number Tested	No. HIV Positive	% HIV Positive
318	28	8.8%
263	12	4.6%
581	40	6.9%

1992		
Number Tested	No. HIV Positive	% HIV Positive
225	21	9.3%
182	9	4.9%
407	30	7.4%

HIV Seroprevalence for Women Attending a Family Planning Clinic by Race/Ethnicity
San Francisco 1989-1992



1989			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	122	1	0.8%
African American	154	1	0.6%
Latino	810	2	0.2%
Asian/Pacific Isl.	149	0	0.0%
Total	1,235	4	0.3%

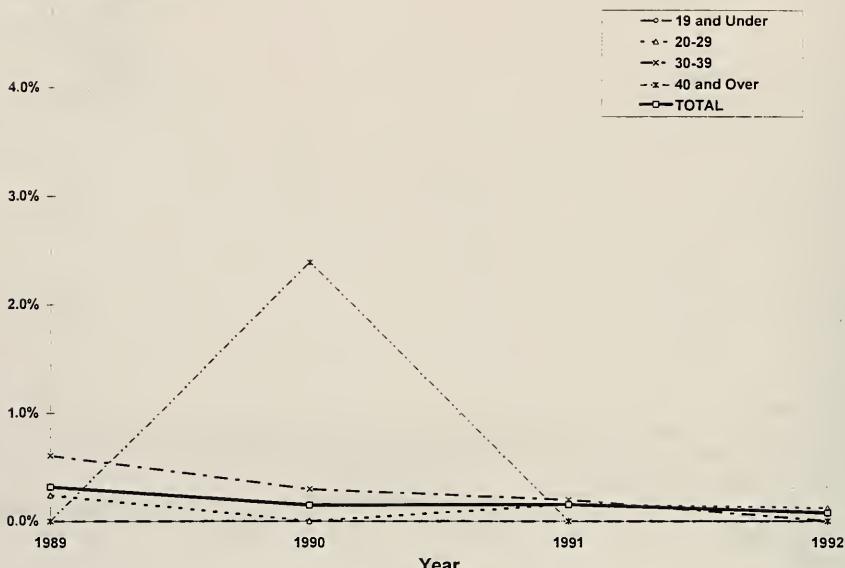
1990			
	Number Tested	No. HIV Positive	% HIV Positive
	126	1	0.8%
	145	0	0.0%
	908	0	0.0%
	166	1	0.6%
	1,345	2	0.1%

1991			
	Number Tested	No. HIV Positive	% HIV Positive
	156	0	0.0%
	141	1	0.7%
	1,441	2	0.1%
	178	0	0.0%
	1,916	3	0.2%

1992			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	82	0	0.0%
African American	105	0	0.0%
Latino	1,001	1	0.1%
Asian/Pacific Isl.	94	0	0.0%
Total	1,282	1	0.1%

HIV Seroprevalence for Women Attending a Family Planning Clinic by Age Group
San Francisco 1989-1992

5.0% - % HIV Positive



1989			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	73	0	0.0%
20-29	834	2	0.2%
30-39	331	2	0.6%
40 and Over	25	0	0.0%
Total	1,263	4	0.3%

1990			
	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	93	0	0.0%
20-29	875	0	0.0%
30-39	340	1	0.3%
40 and Over	42	1	2.4%
Total	1,350	2	0.1%

1991			
	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	107	0	0.0%
20-29	1,282	2	0.2%
30-39	509	1	0.2%
40 and Over	48	0	0.0%
Total	1,946	3	0.2%

1992			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	60	0	0.0%
20-29	817	1	0.1%
30-39	361	0	0.0%
40 and Over	53	0	0.0%
Total	1,291	1	0.1%

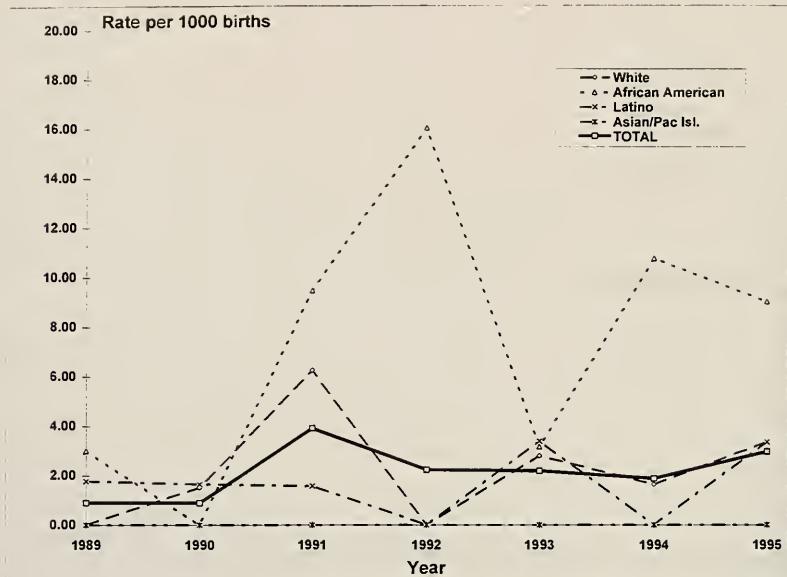
HIV Seroprevalence for Newborn Infants and Their Mothers
San Francisco 1989-1995



Year of Birth	Number Tested	No. HIV Positive	% HIV Positive
1989	2,547	4	0.16%
1990	2,438	2	0.08%
1991	2,509	9	0.36%
1992	2,442	5	0.20%
1993	2,435	5	0.21%
1994	2,293	4	0.17%
1995	2,174	6	0.28%
TOTAL	16,838	35	0.21%

No. of HIV Infections per 1,000 births
1.57
0.82
3.59
2.05
2.05
1.74
2.76
2.08

HIV Seroprevalence for Newborn Infants and Their Mothers by Race/Ethnicity
San Francisco 1989-1995



1989			
Race/Ethnicity	Number Tested	No. HIV Positive	Rate per 1000 births
White	679	0	0.00
African American	334	1	2.99
Latino	564	1	1.77
Asian/Pacific Isl.	636	0	0.00
Total	2,213	2	0.90

1990			
Race/Ethnicity	Number Tested	No. HIV Positive	Rate per 1000 births
White	663	1	1.51
African American	324	0	0.00
Latino	608	1	1.64
Asian/Pacific Isl.	633	0	0.00
Total	2,228	2	0.90

1991			
Race/Ethnicity	Number Tested	No. HIV Positive	Rate per 1000 births
White	640	4	6.25
African American	317	3	9.46
Latino	634	1	1.58
Asian/Pacific Isl.	454	0	0.00
Total	2,045	8	3.91

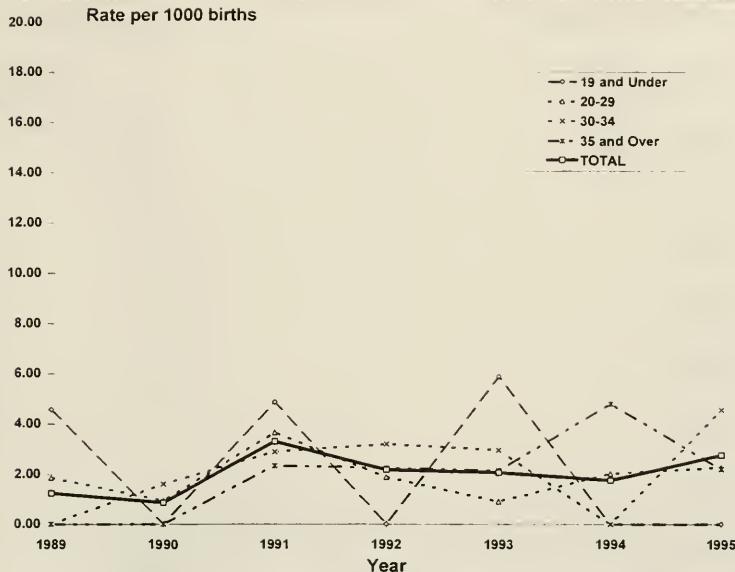
1992			
Race/Ethnicity	Number Tested	No. HIV Positive	Rate per 1000 births
White	646	0	0.00
African American	312	5	16.03
Latino	610	0	0.00
Asian/Pacific Isl.	662	0	0.00
Total	2,230	5	2.24

1993			
Race/Ethnicity	Number Tested	No. HIV Positive	Rate per 1000 births
White	717	2	2.79
African American	316	1	3.16
Latino	590	2	3.39
Asian/Pacific Isl.	661	0	0.00
Total	2,284	5	2.19

1994			
Race/Ethnicity	Number Tested	No. HIV Positive	Rate per 1000 births
White	611	1	1.64
African American	279	3	10.75
Latino	591	0	0.00
Asian/Pacific Isl.	652	0	0.00
Total	2,133	4	1.88

1995			
Race/Ethnicity	Number Tested	No. HIV Positive	Rate per 1000 births
White	597	2	3.35
African American	222	2	9.01
Latino	598	2	3.34
Asian/Pacific Isl.	602	0	0.00
Total	2,019	6	2.97

HIV Seroprevalence for Newborn Infants and Their Mothers by Age Group
San Francisco 1989-1995



1989			
Age Group	Number Tested	No. HIV Positive	Rate per 1000 births
19 and Under	219	1	4.57
20-29	1,080	2	1.85
30-34	625	0	0.00
35 and Over	485	0	0.00
Total	2,409	3	1.25

1990			
Age Group	Number Tested	No. HIV Positive	Rate per 1000 births
19 and Under	181	0	0.00
20-29	1,064	1	0.94
30-34	625	1	1.60
35 and Over	451	0	0.00
Total	2,321	2	0.86

1991			
Age Group	Number Tested	No. HIV Positive	Rate per 1000 births
19 and Under	206	1	4.85
20-29	1,097	4	3.65
30-34	695	2	2.88
35 and Over	429	1	2.33
Total	2,427	8	3.30

1992			
Age Group	Number Tested	No. HIV Positive	Rate per 1000 births
19 and Under	165	0	0.00
20-29	1,067	2	1.87
30-34	628	2	3.18
35 and Over	446	1	2.24
Total	2,306	5	2.17

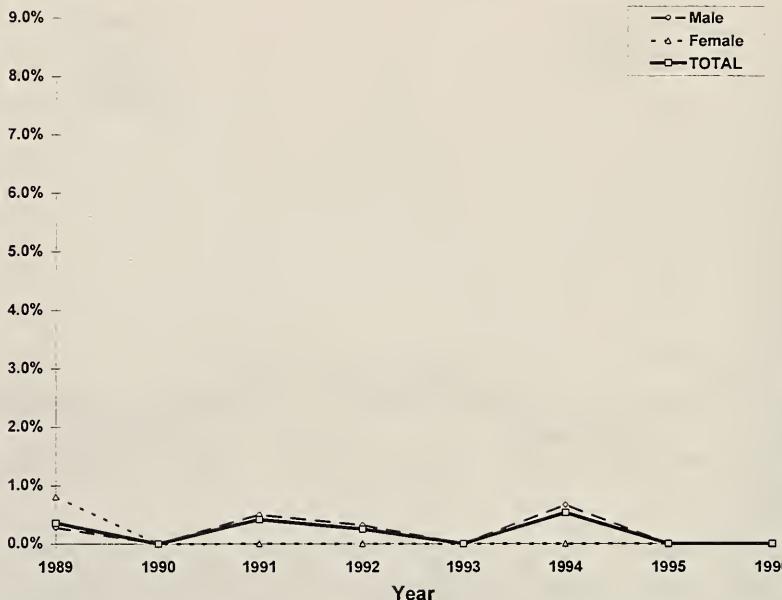
1993			
Age Group	Number Tested	No. HIV Positive	Rate per 1000 births
19 and Under	170	1	5.88
20-29	1,108	1	0.90
30-34	677	2	2.95
35 and Over	466	1	2.15
Total	2,421	5	2.07

1994			
Age Group	Number Tested	No. HIV Positive	Rate per 1000 births
19 and Under	186	0	0.00
20-29	990	2	2.02
30-34	689	0	0.00
35 and Over	417	2	4.80
Total	2,282	4	1.75

1995			
Age Group	Number Tested	No. HIV Positive	Rate per 1000 births
19 and Under	181	0	0.00
20-29	881	2	2.27
30-34	658	3	4.56
35 and Over	454	1	2.20
Total	2,174	6	2.76

HIV Seroprevalence for Civilian Applicants for Military Service by Gender
San Francisco 1989-1996

10.0% % HIV Positive



1989			
Gender	Number Tested	No. HIV Positive	% HIV Positive
Males	711	2	0.3%
Females	124	1	0.8%
Total	835	3	0.4%

1990		
Number Tested	No. HIV Positive	% HIV Positive
520	0	0.0%
105	0	0.0%
625	0	0.0%

1991		
Number Tested	No. HIV Positive	% HIV Positive
407	2	0.5%
73	0	0.0%
480	2	0.4%

1992			
Gender	Number Tested	No. HIV Positive	% HIV Positive
Males	315	1	0.3%
Females	86	0	0.0%
Total	401	1	0.2%

1993		
Number Tested	No. HIV Positive	% HIV Positive
322	0	0.0%
73	0	0.0%
395	0	0.0%

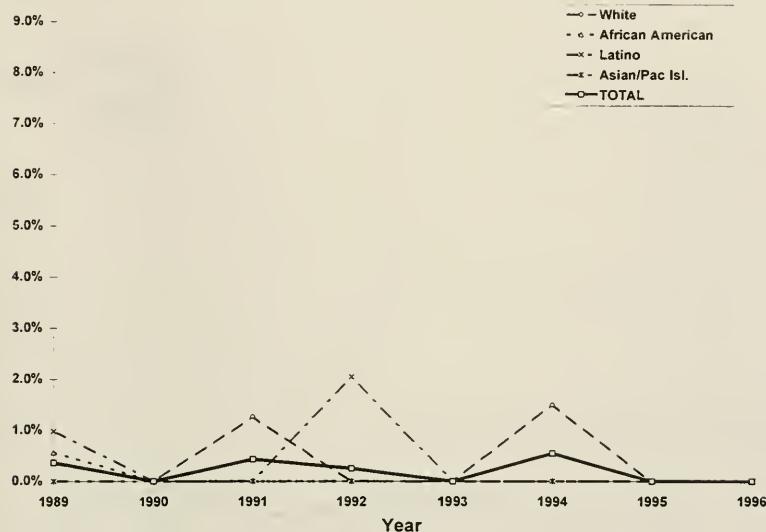
1994		
Number Tested	No. HIV Positive	% HIV Positive
302	2	0.7%
74	0	0.0%
376	2	0.5%

1995			
Gender	Number Tested	No. HIV Positive	% HIV Positive
Males	261	0	0.0%
Females	58	0	0.0%
Total	319	0	0.0%

1996		
Number Tested	No. HIV Positive	% HIV Positive
321	0	0.0%
68	0	0.0%
389	0	0.0%

HIV Seroprevalence for Civilian Applicants for Military Service by Race/Ethnicity
San Francisco 1989-1996

10.0% - % HIV Positive



1989			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	286	1	0.3%
African American	178	1	0.6%
Latino	102	1	1.0%
Asian/Pacific Isl.	253	0	0.0%
Total	819	3	0.4%

1990			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	210	0	0.0%
African American	85	0	0.0%
Latino	78	0	0.0%
Asian/Pacific Isl.	232	0	0.0%
Total	605	0	0.0%

1991			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	160	2	1.3%
African American	63	0	0.0%
Latino	68	0	0.0%
Asian/Pacific Isl.	173	0	0.0%
Total	464	2	0.4%

1992			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	134	0	0.0%
African American	53	0	0.0%
Latino	49	1	2.0%
Asian/Pacific Isl.	158	0	0.0%
Total	394	1	0.3%

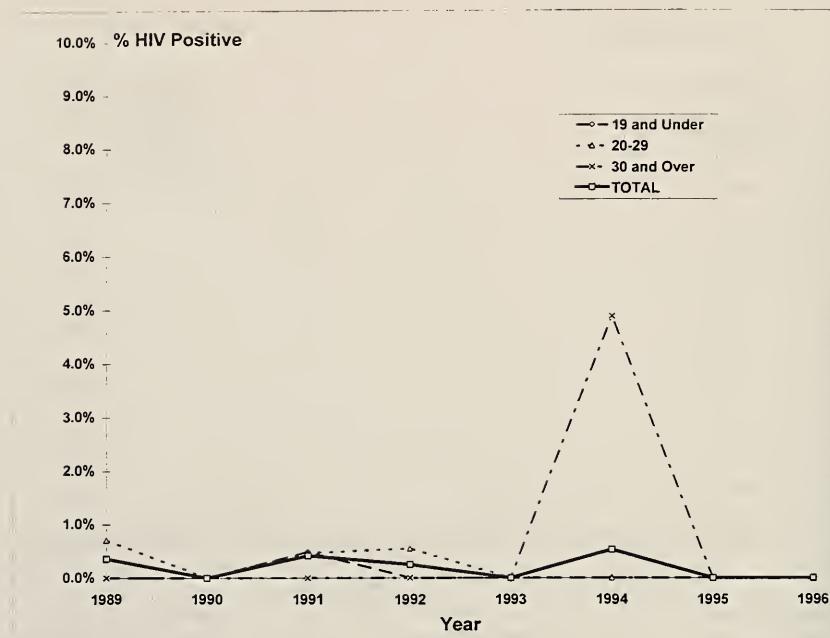
1993			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	142	0	0.0%
African American	43	0	0.0%
Latino	64	0	0.0%
Asian/Pacific Isl.	133	0	0.0%
Total	382	0	0.0%

1994			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	134	2	1.5%
African American	49	0	0.0%
Latino	47	0	0.0%
Asian/Pacific Isl.	134	0	0.0%
Total	364	2	0.5%

1995			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	105	0	0.0%
African American	41	0	0.0%
Latino	50	0	0.0%
Asian/Pacific Isl.	121	0	0.0%
Total	317	0	0.0%

1996			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	125	0	0.0%
African American	63	0	0.0%
Latino	54	0	0.0%
Asian/Pacific Isl.	137	0	0.0%
Total	379	0	0.0%

HIV Seroprevalence for Civilian Applicants for Military Service by Age Group
 San Francisco 1989-1996



1989			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	316	0	0.0%
20-29	425	3	0.7%
30 and Over	94	0	0.0%
Total	835	3	0.4%

1990			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	281	0	0.0%
20-29	290	0	0.0%
30 and Over	54	0	0.0%
Total	625	0	0.0%

1991			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	206	1	0.5%
20-29	215	1	0.5%
30 and Over	59	0	0.0%
Total	480	2	0.4%

1992			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	179	0	0.0%
20-29	183	1	0.5%
30 and Over	39	0	0.0%
Total	401	1	0.2%

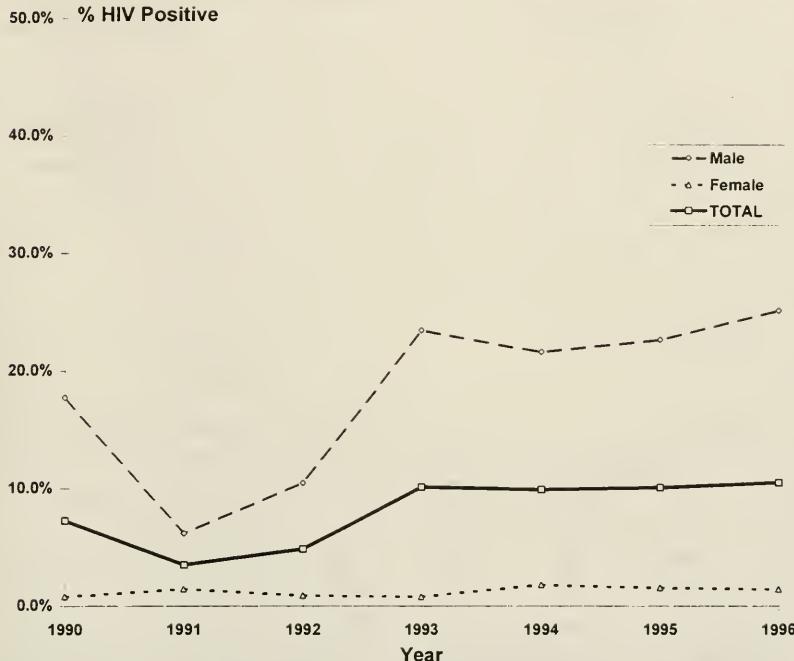
1993			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	164	0	0.0%
20-29	190	0	0.0%
30 and Over	41	0	0.0%
Total	395	0	0.0%

1994			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	123	0	0.0%
20-29	212	0	0.0%
30 and Over	41	2	4.9%
Total	376	2	0.5%

1995			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	124	0	0.0%
20-29	151	0	0.0%
30 and Over	44	0	0.0%
Total	319	0	0.0%

1996			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
19 and Under	155	0	0.0%
20-29	187	0	0.0%
30 and Over	47	0	0.0%
Total	389	0	0.0%

HIV Seroprevalence for Adolescents entering Homeless Youth Centers (HYCs) by Gender
San Francisco 1990-1996



1990			
Gender	Number Tested	No. HIV Positive	% HIV Positive
Males	79	14	17.7%
Females	127	1	0.8%
Total	206	15	7.3%

1991			
Number Tested	No. HIV Positive	% HIV Positive	
210	13	6.2%	
275	4	1.5%	
485	17	3.5%	

1992			
Number Tested	No. HIV Positive	% HIV Positive	
239	25	10.5%	
336	3	0.9%	
575	28	4.9%	

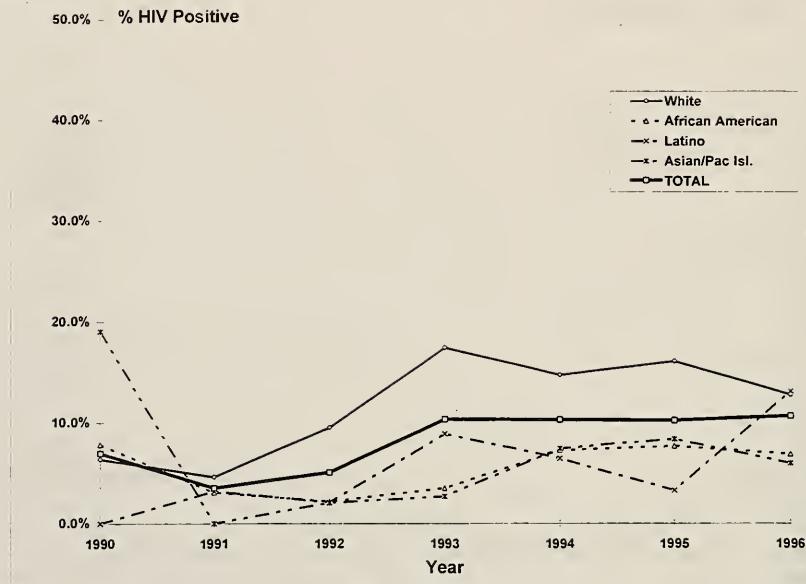
1993			
Gender	Number Tested	No. HIV Positive	% HIV Positive
Males	269	63	23.4%
Females	383	3	0.8%
Total	652	66	10.1%

1994			
Number Tested	No. HIV Positive	% HIV Positive	
310	67	21.6%	
445	8	1.8%	
755	75	9.9%	

1995			
Number Tested	No. HIV Positive	% HIV Positive	
265	60	22.6%	
389	6	1.5%	
654	66	10.1%	

1996			
Gender	Number Tested	No. HIV Positive	% HIV Positive
Males	219	55	25.1%
Females	351	5	1.4%
Total	570	60	10.5%

HIV Seroprevalence for Adolescents entering Homeless Youth Centers (HYCs) by Race/Ethnicity
San Francisco 1990-1996



1990			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	94	6	6.4%
African American	51	4	7.8%
Latino	35	0	0.0%
Asian/Pacific Isl.	21	4	19.0%
Total	201	14	7.0%

1991			
	Number Tested	No. HIV Positive	% HIV Positive
White	217	10	4.6%
African American	98	3	3.1%
Latino	125	4	3.2%
Asian/Pacific Isl.	43	0	0.0%
Total	483	17	3.5%

1992			
	Number Tested	No. HIV Positive	% HIV Positive
White	221	21	9.5%
African American	138	3	2.2%
Latino	143	3	2.1%
Asian/Pacific Isl.	49	1	2.0%
Total	551	28	5.1%

1993			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	253	44	17.4%
African American	144	5	3.5%
Latino	158	14	8.9%
Asian/Pacific Isl.	75	2	2.7%
Total	630	65	10.3%

1994			
	Number Tested	No. HIV Positive	% HIV Positive
White	307	45	14.7%
African American	152	11	7.2%
Latino	171	11	6.4%
Asian/Pacific Isl.	81	6	7.4%
Total	711	73	10.3%

1995			
	Number Tested	No. HIV Positive	% HIV Positive
White	262	42	16.0%
African American	131	10	7.6%
Latino	153	5	3.3%
Asian/Pacific Isl.	72	6	8.3%
Total	618	63	10.2%

1996			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive
White	244	31	12.7%
African American	102	7	6.9%
Latino	115	15	13.0%
Asian/Pacific Isl.	84	5	6.0%
Total	545	58	10.6%

HIV Seroprevalence for Adolescents entering Homeless Youth Centers (HYCs) by Age Group
San Francisco 1990-1996

50.0% - % HIV Positive



1990			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
14 and Under	19	0	0.0%
15-19	173	12	6.9%
20-24	14	3	21.4%
Total	206	15	7.3%

1991			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
14 and Under	66	0	0.0%
15-19	376	8	2.1%
20-24	42	9	21.4%
Total	484	17	3.5%

1992			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
14 and Under	54	1	1.9%
15-19	355	6	1.7%
20-24	80	17	21.3%
Total	489	24	4.9%

1993			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
14 and Under	53	0	0.0%
15-19	455	20	4.4%
20-24	136	46	33.8%
Total	644	66	10.2%

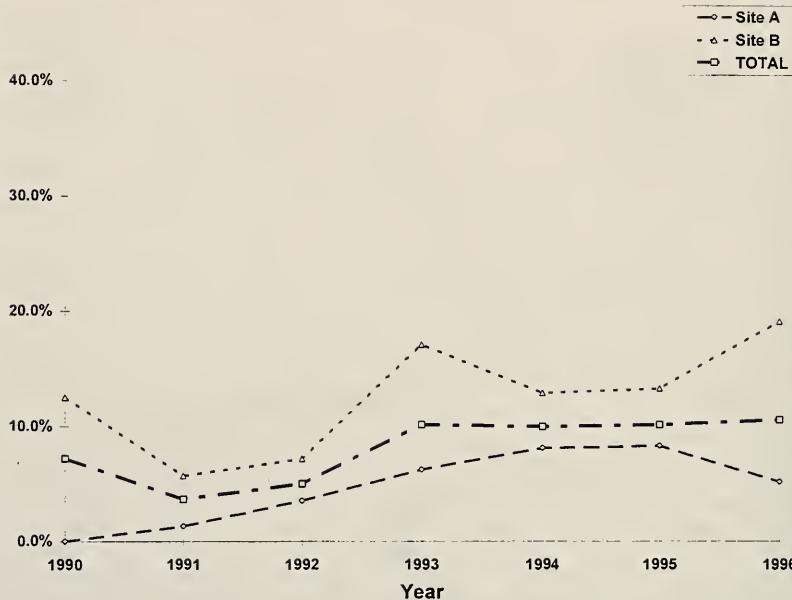
1994			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
14 and Under	70	1	1.4%
15-19	522	14	2.7%
20-24	155	59	38.1%
Total	747	74	9.9%

1995			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
14 and Under	61	3	4.9%
15-19	428	9	2.1%
20-24	163	53	32.5%
Total	652	65	10.0%

1996			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
14 and Under	29	0	0.0%
15-19	357	7	2.0%
20-24	176	49	27.8%
Total	562	56	10.0%

HIV Seroprevalence for Adolescents entering Homeless Youth Centers (HYCs) by Site
San Francisco 1990-1996

50.0% - % HIV Positive



1990			
Site	Number Tested	No. HIV Positive	% HIV Positive
Site A	88	0	0.0%
Site B	120	15	12.5%
Total	208	15	7.2%

1991		
Number Tested	No. HIV Positive	% HIV Positive
228	3	1.3%
264	15	5.7%
492	18	3.7%

1992		
Number Tested	No. HIV Positive	% HIV Positive
341	12	3.5%
238	17	7.1%
579	29	5.0%

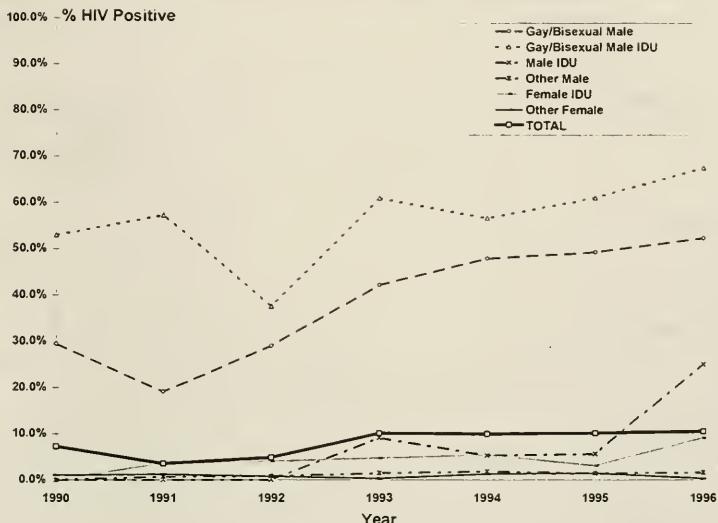
1993			
Site	Number Tested	No. HIV Positive	% HIV Positive
Site A	418	26	6.2%
Site B	235	40	17.0%
Total	653	66	10.1%

1994		
Number Tested	No. HIV Positive	% HIV Positive
459	37	8.1%
296	38	12.8%
755	75	9.9%

1995		
Number Tested	No. HIV Positive	% HIV Positive
412	34	8.3%
242	32	13.2%
654	66	10.1%

1996			
Site	Number Tested	No. HIV Positive	% HIV Positive
Site A	349	18	5.2%
Site B	221	42	19.0%
Total	570	60	10.5%

HIV Seroprevalence for Adolescents entering Homeless Youth Centers (HYCs) by Risk Population
San Francisco 1990-1996



1990			
Risk Population	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Male	17	5	29.4%
Gay/Bisexual Male IDU	17	9	52.9%
Male IDU	15	0	0.0%
Other Male	30	0	0.0%
Female IDU	25	0	0.0%
Other Female	102	1	1.0%
Total	206	15	7.3%

1991			
	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Male	42	8	19.0%
Male IDU	7	4	57.1%
Other Male	16	0	0.0%
Female IDU	145	1	0.7%
Other Female	28	1	3.6%
Total	247	3	1.2%
	485	17	3.5%

1992			
	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Male	38	11	28.9%
Male IDU	24	9	37.5%
Other Male	16	0	0.0%
Female IDU	125	1	0.8%
Other Female	25	1	4.0%
Total	265	2	0.8%
	493	24	4.9%

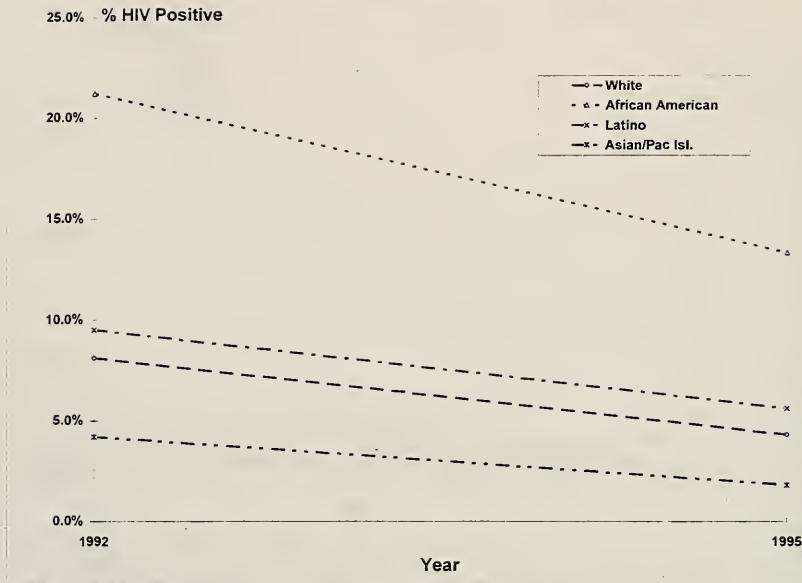
1993			
Risk Population	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Male	76	32	42.1%
Male IDU	46	28	60.9%
Other Male	11	1	9.1%
Female IDU	136	2	1.5%
Other Female	42	2	4.8%
Total	341	1	0.3%
	652	66	10.1%

1994			
	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Male	69	33	47.8%
Male IDU	53	30	56.6%
Other Male	19	1	5.3%
Female IDU	169	3	1.8%
Other Female	56	3	5.4%
Total	389	5	1.3%
	755	75	9.9%

1995			
	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Male	65	32	49.2%
Male IDU	41	25	61.0%
Other Male	18	1	5.6%
Female IDU	141	2	1.4%
Other Female	33	1	3.0%
Total	356	5	1.4%
	654	66	10.1%

1996			
Risk Population	Number Tested	No. HIV Positive	% HIV Positive
Gay/Bisexual Male	44	23	52.3%
Male IDU	40	27	67.5%
Other Male	12	3	25.0%
Female IDU	123	2	1.6%
Other Female	44	4	9.1%
Total	307	1	0.3%
	570	60	10.5%

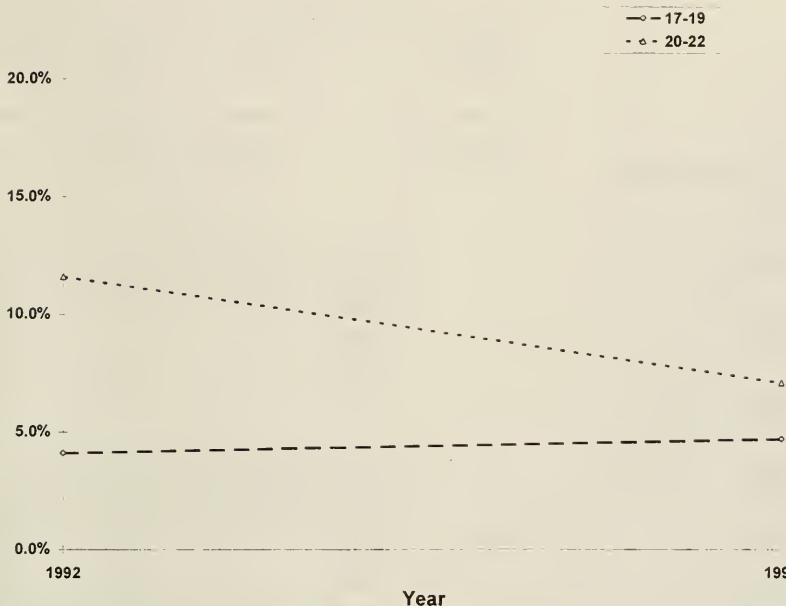
HIV Seroprevalence Among Young Men who have Sex with Men:
 The Young Men's Survey by Race/Ethnicity
 San Francisco 1992-1995



1992-1993				1994-1995			
Race/Ethnicity	Number Tested	No. HIV Positive	% HIV Positive	Number Tested	No. HIV Positive	% HIV Positive	
White	210	17	8.1%	208	9	4.3%	
African American	52	11	21.2%	128	17	13.3%	
Latino	95	9	9.5%	196	11	5.6%	
Asian/Pacific Isl.	48	2	4.2%	114	2	1.8%	

HIV Seroprevalence Among Young Men who have Sex with Men:
The Young Men's Survey by Age Group
San Francisco 1992-1995

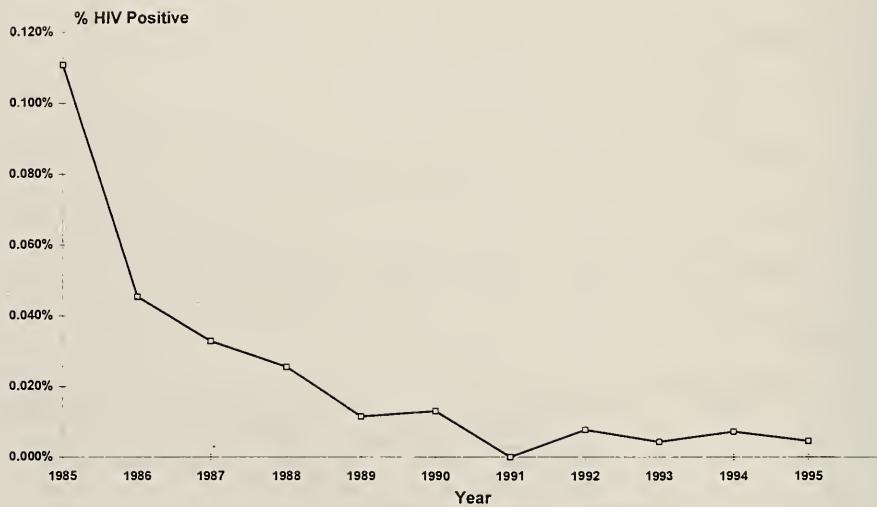
25.0% - % HIV Positive



1992-1993			
Age Group	Number Tested	No. HIV Positive	% HIV Positive
17-19	122	5	4.1%
20-22	303	35	11.6%

1994-1995		
Number Tested	No. HIV Positive	% HIV Positive
255	12	4.7%
420	30	7.1%

HIV Seroprevalence for Blood Donors from the San Francisco Bay Area
San Francisco 1985-1995



Year of Donation	Total Donations	No. HIV Positive	% HIV Positive
1985	72,204	80	0.111%
1986	88,168	40	0.045%
1987	91,396	30	0.033%
1988	90,192	23	0.026%
1989	87,320	10	0.011%
1990	84,578	11	0.013%
1991	77,273	8	0.010%
1992	78,097	6	0.008%
1993	70,545	3	0.004%
1994	69,684	5	0.007%
1995	66,023	3	0.005%
TOTAL	875,480	219	0.025%

HIV Seroprevalence for Blood Donors from the San Francisco Bay Area
Pooled Data, San Francisco 1985-1995

Donation Status	Gender	Total Donors	No. HIV Positive	% HIV Positive
First Time Donors	Male	40,015	14	0.035%
	Female	41,046	4	0.010%
Repeat Donors	Male	147,890	4	0.003%
	Female	132,671	3	0.002%
Total		361,622	25	0.007%

Race/Ethnicity	Total Donors	No. HIV Positive	% HIV Positive
White	297,711	13	0.004%
African American	14,425	8	0.055%
Latino	0	0	0.000%
Asian/Pacific Isl.	27,508	0	0.000%
Total	339,644	21	0.006%

Age Group (Years)	Total Donors	No. HIV Positive	% HIV Positive
19 and Under	24,373	0	0.000%
20-29	62,512	5	0.008%
30-39	96,062	15	0.016%
40 and Over	178,675	5	0.003%
Total	361,622	25	0.007%

The 1997 Consensus Report:
Estimated HIV incidence and prevalence in San Francisco

Risk Group	<u>Population Size</u>	<u>Prevalence</u>		<u>Incidence</u>		
		<u>N</u>	<u>%*</u>	<u>N</u>	<u>%**</u>	
Men who have sex with men (MSM)						
MSM Non-IDU	39,000	11,700	30%	283	1.1%	
Young (<30)	6,300	945	15%	64	1.2%	
Older (30+)	32,700	10,755	33%	219	1.0%	
MSM-IDU	4,100	1,435	35%	53	2.0%	
Subtotal	43,100	13,135	30.5%	336	1.1%	
Heterosexual Male & Female IDUs						
Heterosexual Male	8,500	1,020	12%	76	1.0%	
Female	4,500	540	12%	41	1.0%	
Subtotal	13,000	1,560	12%	117	1.0%	
Other Adult/Adolescents						
Heterosexual Male	259,384	156	0.06%	16	0.006%	
Female	281,911	282	0.10%	28	0.01%	
Trans/Blood disorders		50		1		
Subtotal	541,295	488		45		
Infants/Children (< 13 Years)	105,000	66	0.06%	1	0.001%	
Total		15,249		499		

* Percent Positive

** % Per Year

The 1997 Consensus Report:
 Distribution of HIV Infections by Risk Population and Race/Ethnicity
 in San Francisco

Risk Group	White		African American		Latino		Asian/PI		Other		Total HIV
	No.	%	No.	%	No.	%	No.	%	No.	%	No.
MSM											
non-IDU	8,919	76.2	682	5.8	1,188	10.2	574	4.9	336	2.9	11,700
Young (<30)	639	67.6	90	9.5	113	12.0	90	9.5	13	1.4	945
Older (30+)	8,280	77.0	592	5.5	1,075	10.0	484	4.5	323	3.0	10,755
IDU	789	55.0	330	23.0	244	17.0	50	3.5	22	15.0	1,435
Subtotal	9,708	73.9	1,012	7.7	1,432	10.9	624	4.8	358	2.8	13,135
Heterosexual Male											
& Female IDU											
Heterosexual Male	471	46.2	350	34.3	122	12.0	47	4.6	30	2.9	1,020
Female	161	29.8	243	45.0	65	12.0	36	6.6	36	6.6	540
Subtotal	632	40.5	593	38.0	187	12.0	83	5.3	66	4.2	1,560
Other Adult/Adolescent											
Heterosexual Male	62	40.0	53	34.0	28	18.0	10	6.5	2	1.5	156
Female	96	34.0	155	55.0	14	5.0	3	1.0	14	5.0	282
Transfusion/Blood disorder	27	54.0	8	16.0	8	16.0	8	16.0	0	0.0	50
Subtotal	185	37.9	216	44.3	50	10.2	21	4.3	16	3.3	488
Total Adult HIV Infection	10,525	69.3	1,821	12.0	1,669	11.0	728	4.8	440	2.9	15,183
Adult HIV Seroprevalence	3.6		3.4		2.4		0.5		1.3		2.5
Infants/Children	28	42.5	23	35.0	8	12.5	3	5.0	3	5.0	66
Total HIV Infections	10,553	69.2	1,844	12.1	1,677	11.0	731	4.8	443	2.9	15,249
Total HIV Seroprevalence	3.3		2.7		1.9		0.4		1.0		2.2
Total Number of AIDS											
Cases Alive	5,317	70.3	1,073	14.2	908	12.0	232	3.1	38	0.5	7,568
Ratio: HIV infections/AIDS	1.98		1.72		1.85		3.15		11.66		2.01

The 1992 Consensus Report:

ESTIMATED HIV INCIDENCE AND PREVALENCE IN SAN FRANCISCO

<u>RISK GROUP</u>	<u>POPULATION</u>	<u>HIV PREVALENCE</u>		<u>ANNUAL HIV INCIDENCE</u>		
		<u>SIZE</u>	<u>N*</u>	<u>PERCENT</u>	<u>N**</u>	
<u>Gay/Bisexual Men:</u>						
Non-IDU's						
Young (17-25)	5,000	600	12.00%	200	4.00%	
Older (26+)	50,000	22,500	45.00%	415	1.50%	
IDUs	3,000	1,900	63.00%	35	3.50%	
SUBTOTAL	58,000	25,000	43.00%	650	2.00%	
<u>Injection Drug Users:</u>						
Heterosexual Men	8,500	1,200	14.00%	150	2.00%	
Women	4,500	500	11.00%	80	2.00%	
SUBTOTAL	13,000	1,700	13.00%	230	2.00%	
<u>Other Adults/Adolescents</u>						
Women	315,000	630	0.20%	100	0.03%	
Heterosexual Men	253,000	250	0.10%	50	0.02%	
SUBTOTAL	568,000	880	0.15%	150	0.025%	
<u>Infants and Children:</u>						
Infants and Children	85,000	85	0.10%	5	0.03% of births	
TOTAL	724,000	27,665	4.00%	1,035	0.15%	

